**Project Development Phase**

**Model Performance Test**

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| Date | 14 june 2025 |
| Team ID | LTVIP2025TMID32074 |
| Project Name | Sustainable Smart City using IBM Granite |
| Maximum Marks |  |

**Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

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| **S.No.** | **Parameter** | **Values** | **Screenshot** |
|  | Model Summary |  **Model Name:** ibm-granite/granite-3.3-2b-instruct   **Architecture:** Decoder-only Transformer   **Model Size:** 2 Billion Parameters   **Instruction-Tuned:** Yes, for general-purpose instruction following   **Provider:** IBM Watsonx / IBM Hugging Face   **Use Case:** Natural language understanding and response generation for Smart City Assistant   **Input/Output Format:** Prompt-based text input → Generated response   **Deployment:** Used via Hugging Face Inference API (no local training)   **Fine-tuning:** Not performed (used zero-shot with custom prompts) |  |
|  | Accuracy | Training Accuracy -*Not Applicable* (Pretrained model, not trained by us)   Validation Accuracy -*Not Applicable* (Used in zero-shot mode via API) |  |
| 3. | Fine Tunning Result( if Done) | Validation Accuracy -  **Status:** *Not Applicable*   **Reason:** The model ibm-granite/granite-3.3-2b-instruct was used in **zero-shot mode** via Hugging Face Inference API.   **Custom Training or Tuning:** No fine-tuning was performed due to API-only usage and model restrictions. |  |